Multi-Role Radar System (MRRS)

Description

The MRRS is a highly mobile radar system to be employed by the MAGTF in all phases of Marine Corps operations. The MRRS is a medium range surveillance radar used to detect and track aircraft, cruise missiles, and unmanned aerial vehicles. The system will serve as a gap-filler radar by providing three-dimensional (3-D) coverage of those areas out of view of the AN/TPS-59 (V) 3, due to terrain masking or other line-of-sight limitations. Additionally, the radar will be capable of providing radar cueing data to all short-range air defense units deployed in support of the MAGTF. The radar is intended to replace and perform all the missions currently associated with the AN/TPS-63 radar, AN/TPS-73 Air Traffic Control radar, and the AN/MPQ-62 surveillance radar. The radar will have connectivity to the Composite Tracking Network and be deployed early during EMW operations to augment seabased air defense sensors and command and control capabilities.

Operational Impact

The radar will provide the speed and flexibility required for enhanced low-level, low radar cross-section Air Breathing Targets (ABT) detection identification, and tracking in the execution of all EMW operations. Execution and support of these strategies requires the maneuver and control of aircraft, cruise missile, and UAV assets from ships well over-the-horizon direct to objectives, at much greater distances inland than has been historically required. In addition, the radar will be capable of cueing and reporting on targets detected within its coverage limits to designated air command and control agencies. The reduced logistical footprint of the radar will enhance the capabilities of MACCS elements in support of all phases of MAGTF operations. Once ashore, the radar will possess the mobility required to keep pace with supported maneuver elements and will complement the Marine Corps' long-range radar, the AN/TPS-59 (V) 3, by providing accurate low-level tracks.

Program Status

The MRRS achieved Milestone 0 in August 2000. It is being developed in conjunction with the Office of Naval Research (ONR) as a science and technology effort under the auspices of the Missile Defense Future Naval Capability set. This ONR effort will develop an advanced development model for initial testing in FY04 and full integration testing in FY05. IOC is planned for FY07 with FOC in FY11.

Procurement Profile:	***FY02***	***FY03***
Quantity:	*0*	*0*

Developer/Manufacturer TBD